

API COMMUNICATION

1) Synchronization

In order to send data to the server, it is necessary to create a **RESTful Webservice** (or RESTful web API) on the server side with the **POST method**, eg. <https://nexdiag.com/api/sync>, which will receive data in the **application/json** format:

```
{
  "history": [{
    "id": 1,
    "name": "ogólny",
    "data": [{
      "value": 234,
      "interpretation": 4,
      "type": "Al",
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 3,
      "date": 1528099313
    }
  ]
}],
  "reports": [{
    "id": 1,
    "name": "test",
    "date": 1528099313,
    "model": "Ford",
    "brand": "Mondeo",
    "typeOfBody": "SEDAN",
    "capacity": "1999",
    "power": "105",
    "vin": "",
    "fuelType": "diesel",
    "year": "2010",
    "unitOfMeasure": "um",
    "data": [{
      "placeId": 0,
      "data": [{
        "value": 234,
        "type": "Fe",
        "interpretation": 0,
        "date": 1528099313
      }
    ]
  }
]}
```

```

    {
      "value": 23,
      "type": "Fe + Zn",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Al",
      "interpretation": 0,
      "date": 1528099313
    }
  ],
  {
    "placeId": 1,
    "data": [{
      "value": 234,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 23,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    },
    {
      "value": 123,
      "type": "Fe",
      "interpretation": 0,
      "date": 1528099313
    }
  ]
}

```

Data is sent after each report recording or measurement history. There is also the possibility of manual synchronization. Data is sent incrementally, that is, only the latest data that has been saved since the last synchronization.

2) Protection

It is possible to secure access to the API by adding Basic Auth.